

ENTERED
UPON
RCE
9-3-04

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A light-weight active mirror, comprising:
 - a first layer having a front side and a back side;
 - a second layer having a front side and a back side, the back side of the second layer facing the front side of the first layer;
 - a reflective surface disposed on the front side of the second layer, the reflective surface operable to reflect desired wavelengths of electromagnetic radiation;
 - a plurality of electroactive actuator strips arranged between and connected with the first layer and the second layer and operable to alter a curvature of the mirror;
 - electrical connectors coupled with the electroactive actuator strips and operable to cause the electroactive actuator strips to alter the curvature of the mirror;
 - a plurality of stiffening elements interconnected with at least one of the first layer and the second layer and operable to stiffen the mirror; and
 - a plurality of shape retaining elements attached to at least one of the first layer and the second layer and comprising a material having a shape-retaining property operable to deploy the mirror and to bias the mirror in a desired position.
2. (original) The mirror according to claim 1, wherein the first layer of the mirror comprises a polymer film.
3. (canceled)
4. (original) The mirror according to claim 1, wherein the stiffening elements are arranged within the first layer.
5. (original) The mirror according to claim 1, wherein the stiffening elements comprise carbon fiber rods.
6. (original) The mirror according to claim 1, wherein the stiffening elements extend substantially entirely across the mirror.